

Title (en)
Vacuum pump apparatus.

Title (de)
Vakuumpumpgerät.

Title (fr)
Appareil de pompe à vide.

Publication
EP 0589362 A1 19940330 (EN)

Application
EP 93114957 A 19930916

Priority
JP 25117992 A 19920921

Abstract (en)
A vacuum pump has a pump casing (3) accommodating pump rotor (5) and stator (4), a motor housing (10a) connected to an end of the pump casing and accommodating a driving motor (8) having a driving shaft (8a) drivingly connected to the pump rotor. An oil pump (12) is disposed outside the pump casing and the motor housing and operative to suck lubricant oil from an oil reservoir (11) and feed the thus sucked lubricant oil to bearings (7) supporting the driving shaft. The motor housing has an exhaust port (18) connected by an exhaust line (18a) to an oil mist filter (13) of a high oil-collection efficiency. The oil mist filter has a drain line (17) connected to a suction port of the oil pump (12) so that mist of lubricant contained in gas exhausted from the motor housing (10a) is collected by the oil mist filter and sucked by the oil pump and returned thereby to the bearings, whereby the cycle of supply of fresh or additional lubricant oil to the oil reservoir can be prolonged to extend the maintenance-free period for the pump. <IMAGE>

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CPC (source: EP)
F04D 19/04 (2013.01); **F04D 29/063** (2013.01)

Citation (search report)
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• [AD] PATENT ABSTRACTS OF JAPAN vol. 013, no. 376 (M - 862)<3724> 21 August 1989 (1989-08-21)

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